

**Generalized**  
**GEOLOGIC SECTION OF ROCKS**  
**In Ohio**

**INFORMATION CIRCULAR**

**No. 4**

**Nomenclature and other information for rocks of Mississippian age and older have been superseded by the Generalized Column of Bedrock Units in Ohio <<http://www.dnr.state.oh.us/Portals/10/pdf/stratcol.pdf>>.**

**DIVISION OF GEOLOGICAL SURVEY**  
**Horace R. Collins, Chief**

## GENERALIZED SECTION OF OHIO

System	Series or group	Formation division or stage	Member	Kind of Material	Thickness		Interval				
					Fe.	In.	Fe.	In.			
Permian	Greene		Gilmore	Sandstone	20	0					
			Gilmore	Shales, variable	32	0					
			Nineveh	Limestone, local	61	0	178	0			
			Nineveh	Sandstone, local	62	0					
			Nineveh	Shales, soft to hard	10	0					
			Nineveh	Coal, local, shaly	1	0					
			Nineveh	Limestone, irregular	8	0					
			Nineveh	Shale and shaly sandstone	91	0	100	0			
			Hostetter	Coal, thin, shaly, local	1	0					
			Fish Creek	Shales, variable	39	0					
			Fish Creek	Coal, very local	1	0	40	0			
			Fish Creek	Shale, soft to hard	10	0					
			Fish Creek	Sandstone, local	20	0	45	0			
			Fish Creek	Shales, variable	14	0					
			Dunkard	Coal, local, impure	14	0					
	Jollytown	Shale, irregular	7	0							
	Jollytown	Sandstone, local	25	0	42	0					
	Jollytown	Shales, variable	8	0							
	Jollytown "A"	Coal, local, impure	2	0							
					405	0					
	Permian		Upper Washington	Shales, variable	1	0					
			Upper Washington	Limestone, irregular	5	0					
			Hundred	Shale, variable	12	0	49	0			
			Upper Marietta	Shales, variable	3	0					
			Upper Marietta	Sandstone	16	0					
			Washington "A"	Shale, siliceous	2	0					
			Washington "A"	Coal, shaly, local	2	0					
			Washington	Shales, local	8	0					
			Middle Washington-Creston-Reds	Limestone	7	0					
			Middle Washington-Creston-Reds	Shales, soft to hard	26	0					
Lower Washington			Limestone	9	0	63	0				
Lower Washington			Shale, calcareous	6	0						
Lower Marietta			Sandstone, local	6	0						
Washington			Shale, siliceous	1	0						
Washington			Coal, shaly	3	0						
Permian		Little Washington	Shales, soft to hard	15	0						
		Little Washington	Coal, shaly	1	0	16	0				
		Mannington	Shales, irregular	4	0						
		Mannington	Sandstone, local	30	0	42	0				
		Waynesburg "A"	Shales, variable	6	0						
		Waynesburg "A"	Coal, unsteady	2	0						
		Waynesburg	Shales, soft to hard	9	0						
		Waynesburg	Sandstone, rather steady	30	0						
		Elm Grove	Shale, gray, siliceous	5	0	51	0				
		Elm Grove	Limestone	2	0						
		Cassville	Shale, gray	5	0						
						221	0				
		Pennsylvanian	Monongahela		Waynesburg No. 11	Coal, fair purity	1	4			
					Gilboy	Shale and sandstone	14	6	16	0	
					Little Waynesburg	Coal, persistent	2				
Waynesburg	Limestone and marly shale				10	0					
Uniontown	Shale or sandstone				28	7	39	5			
Uniontown No. 10	Coal					10					
Uniontown	Shale, siliceous, and limestone				5	0					
Arnoldsburg	Coal wanting				32	0					
Arnoldsburg	Limestone and calcareous shale				37	0					
Fulton	Shale, green, or shaly sandstone				34	4	110	2			
Benwood	Limestone and calcareous shale				34	4					
Upper Sewickley	Sandstone, local				20	0					
Sewickley	Shale, siliceous				20	0					
Mapletown	Coal				1	10					
Meigs Creek No. 9	Coal				1	10					
Pennsylvanian			Lower Sewickley	Clay shale, calcareous	3	0					
			Fishpot	Sandstone	19	6	23	1			
			Fishpot	Coal, persistent, thin	7						
			Fishpot	Limestone and marly shale	20	1					
			Fishpot or Pomeroy	Sandstone	12	0	33	5			
			Redstone	Coal, unsteady	1	4					
			Pomeroy	Limestone and marly shale	13	0					
			Redstone	Sandstone, local	9	0	25	7			
			Upper Pittsburgh	Coal, persistent	3	7					
			Pittsburgh No. 8				247	8			
			Pennsylvanian	Conemaugh		Upper Pittsburgh	Clay shale	5	6		
						Upper Pittsburgh	Limestone, irregular	5	0	19	0
						Upper Little Pittsburgh	Clay shale	13	5		
						Upper Little Pittsburgh	Coal, very local		1		
						Bellaire	Clay shale	4	0		
Bellaire	Sandstone, local	10				6					
Lower Little Pittsburgh	Shale, siliceous	2				5	17	0			
Lower Little Pittsburgh	Coal, seldom present					1					
Summerfield	Shale, variable	8				0					
Lower Pittsburgh	Limestone	12				0					
Lower Pittsburgh	Shales, variable	26				0	69	0			
Coanellsville	Sandstone, local	20				0					
Coanellsville	Clay shale	2				10					
Clarkeburg	Coal, local	2				2					
Clarkeburg	Limestone and marly shale	4				0					
Morgantown	Sandstone, local	30				0	34	1			
Elk Lick	Coal, usually wanting	1									
Elk Lick	Limestone and marly shale	5				0					
Elk Lick	Shale, variable	5				0					
Birmingham	Shale, siliceous	10				0	20	5			
Skelly	Limestone, local, marine	10				4					
Duquesne	Coal, seldom evident					1					
Gaysport	Shale, variable	9				0					
Gaysport	Shale, siliceous	11				0					
Gaysport	Limestone, siliceous, marine	1				0					
Ames	Shale, siliceous	16				0	54	6			
Ames	Limestone, marine	1				6					
Harlem	Shale, siliceous	15				0					
Harlem	Coal, persistent	1				0					
Pennsylvanian	Allegheny					Round Knob-Pittsburgh	Clay, calcareous	2	0		
			Pittsburgh	Clay shale, red	12	0					
			Saltzburgh	Sandstone, local	8	0	26	0			
			Saltzburgh	Shale, siliceous	3	0					
			Barton	Coal, local	1	0					
			Ewing	Clay shale	4	0					
			Ewing	Limestone, ferruginous	1	0					
			Cow Run	Shale, siliceous	3	0					
			Cow Run	Sandstone, local	15	4	29	0			
			Portersville	Shale, siliceous	2	0					
			Portersville	Limestone, marine	2	0					
			Anderson	Coal, persistent	1	8					
			Bloomfield	Clay shale	3	7					
			Bloomfield	Limestone, local	1	5					
			Cambridge	Shales, variable	19	0	30	0			
			Wilgus	Limestone, marine	4	0					
			Wilgus	Coal, unsteady	2	0					
			Buffalo	Clay shale	3	8					
			Brush Creek	Shale or sandstone	23	0					
			Brush Creek	Limestone, marine	20	0	47	0			
			Brush Creek	Coal, local, thin	2	4					
			Mason	Shales, variable	10	6	11	0			
			Mason	Coal, local	6						
			Upper Mahoning	Shale or sandstone	10	0	11	0			
			Mahoning, Groff	Coal	1	0					
			Thornston	Clay, irregular	5	0					
			Mahoning	Limestone, local	2	0	32	0			
			Lower Mahoning	Shale or sandstone	25	0					
							400	0			
			Pennsylvanian	Allegheny		Upper Freeport No. 7	Coal, patchy	3	0		
Upper Freeport No. 7	Clay and shale	7				0					
Upper Freeport	Limestone and marly shale	2				0	12	3			
Bolivar	Coal, local, thin	2				3					
Bolivar	Clay, flint and plastic	5				0					
Upper Freeport	Shale or sandstone	33				0	39	0			
Lower Freeport	Coal, patchy	1				0					
Rogers	Coal, impure	2				6					
Lower Freeport	Limestone, local	1				0	29	6			
Lower Freeport	Shale or sandstone	25				0					
Upper Kittanning	Coal, seldom present	10				0					
Upper Kittanning	Shale and sandstone	10				0					
Washingtonville (Yellow Kidney ore)	Shale, marine	4				0	18	0			
Middle Kittanning No. 6	Coal, persistent	4				0					
Salem	Clay, siliceous	3				6					
Salem	Limestone, impure, local	3				6	14	6			
Red Kidney ore	Shales, siliceous	10				0					
Strasburg	Coal, local	10				6					
Oak Hill	Clay, flint and plastic	4				0					
Oak Hill	Shales, siliceous	3				0	13	4			
Hamden	Limestone, unsteady, marine	4				0					
Lower Kittanning No. 5	Coal	2				4					
Lawrence	Clay, plastic	5				0	5	4			
Lawrence	Coal, shaly, local	5				4					
Kittanning	Clay, flint and plastic	6				0					
Kittanning	Shale and sandstone	8				2					
Ferrieros	Ore, irregular	8				0	21	4			
Vanport	Limestone, marine	6				6					
Scrubgrass	Coal, seldom present	6									
Clarion No. 4a	Shale, carbonaceous	5				0	9	0			
Clarion No. 4a	Coal, patchy	4	0								
Canary	Clay, flint and plastic	5	0								
Canary	Ore, very local	6	17								
Clarion	Sandstone, irregular	10	6								
Winters	Coal, very local	1	0								
Zaleski	Flint, impure, marine	1	0	2	0						
Ogan	Coal, local	1	0								
Putnam Hill	Shale and sandstone	25	0								
Putnam Hill	Limestone, marine	4	0	31	0						
Brookville No. 4	Coal, steady	2	0								
				212	3						